

02-12-01

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02/08/01



U.S. PATENT APPLICATION  
ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Case Docket No.: 50N3698.01/1564



Sir:

Transmitted herewith for filing is the patent application of  
Applicant(s): Clay H. Fisher, Michael W. Blasgen, and Eric D. Edwards  
Title: System And Method For Creating Still Images  
By Utilizing A Video Camera Device

Enclosed are:

- ☒ 28 pages of specification, claims and abstract.
- ☒ 8 sheets of ☐ informal ☒ formal drawing(s).
- ☐ A declaration and power of attorney.
- ☐ An assignment transmittal.
- ☒ An assignment of the invention to: Sony Corporation and Sony Electronics, Inc.  
Please record the assignment and return to the undersigned.
- ☐ A certified copy of a \_\_\_\_\_ application.
- ☐ An associate power of attorney.
- ☐ A verified statement to establish small entity status under 37 CFR §§ 1.9 and 1.27.
- ☒ PTO Form-1449 and copies of cited art.

The filing fee has been calculated as shown below:

For	(Col. 1) No. Filed	(Col. 2) No. Extra	Small Entity		or	Other Than a Small Entity	
			Rate	Fee		Rate	Fee
Basic Fee				\$385.00			\$710.00
Total Claims	42 - 20 = *	22	x \$11 =	\$		x \$18 =	\$396.00
Indep. Claims	4 - 3 = *	1	x \$40 =	\$	or	x \$80 =	\$80.00
Multiple Dependent Claims Present <input type="checkbox"/>			+ \$130 =	\$		+ \$260 =	\$
*If the difference in column 1 is less than zero, enter 0 in column 2			Total	\$	or	Total	\$1186.00

☐ Please charge my Deposit Account No. 50-1443 the amount of \$ \_\_\_\_\_. A duplicate copy of this sheet is enclosed.


☒ A check in the amount of \$ 1186.00 to cover the filing fee ☐ and recording of assignment is enclosed.

☒ The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 50-1443. A duplicate copy of this sheet is enclosed.

- ☒ Any additional filing fees required under 37 CFR § 1.16.
- ☒ Any patent application processing fees under 37 CFR § 1.17.
- ☐ The issue fee set in 37 CFR § 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR § 1.311(b).

Respectfully submitted,

Dated: Feb. 6, 2001

  
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IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Fisher et al.  
SERIAL NO.: Unknown  
FILING DATE: On Even Date Herewith  
TITLE: System And Method For Creating Still Images  
By Utilizing A Video Camera Device  
EXAMINER: Unknown  
GROUP ART UNIT: Unknown  
ATTY.DKT.NO.: 50N3698.01/1564



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BOX PATENT APPLICATION  
ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

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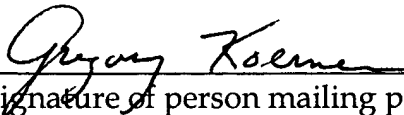
SIR:

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Date of Deposit: Feb. 8, 2001

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Deposited by: Gregory J. Koerner

  
(Signature of person mailing paper or fee)

03/06/00  
Jc780 U.S. PTO

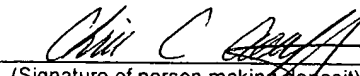
3-8-00

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(Signature of person making deposit)

**PROVISIONAL APPLICATION FOR  
PATENT COVER SHEET**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (b)(2).

Docket Number 50N3698

**INVENTORS/APPLICANTS**

<u>LAST NAME</u>	<u>FIRST NAME</u>	<u>MIDDLE INITIAL</u>	<u>RESIDENCE (City and Either State or Foreign Country)</u>
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Jc541 U.S. PTO  
60/187337  
03/06/00

TITLE OF THE INVENTION (280 characters max)

**VIDEO STREAM STITCHING**

**ENCLOSED APPLICATION PARTS (check all that apply)**

<input checked="" type="checkbox"/> Specification	Number of Pages <u>2</u>	<input type="checkbox"/> Small Entity Statement
<input type="checkbox"/> Drawing(s)	Number of sheets <u>    </u>	<input type="checkbox"/> Other (specify) <u>    </u>

**METHOD OF PAYMENT (check one)**

☐ A check or money order is enclosed to cover the Provisional filing fees

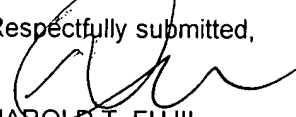
☒ The Commissioner is hereby authorized to charge  
filing fees and credit Deposit Account Number: 19-3195

PROVISIONAL  
FILING FEE  
AMOUNT \$ 150.00

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No  
☐ Yes, the name of the U.S. Government agency and the Government contract number are:     

DIRECT CORRESPONDENCE TO:  
Intellectual Property Department  
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Respectfully submitted,  
  
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Date MARCH 6, 2000

**PROVISIONAL APPLICATION FOR PATENT FILING ONLY**

## VIDEO STREAM STITCHING

(See attached page)

**THE** **WORLD** **OF** **THE** **21ST** **CENTURY**

## Video stream stitching

Video stream stitching - Method and apparatus to create a still image from a video stream.

### **Problem 1:**

There is no way for a user to construct a still image from a video stream if the camera is moving.

### **Problem 2:**

There is no way to use a camera as a document scanner for random sized documents.

### **Problem 3:**

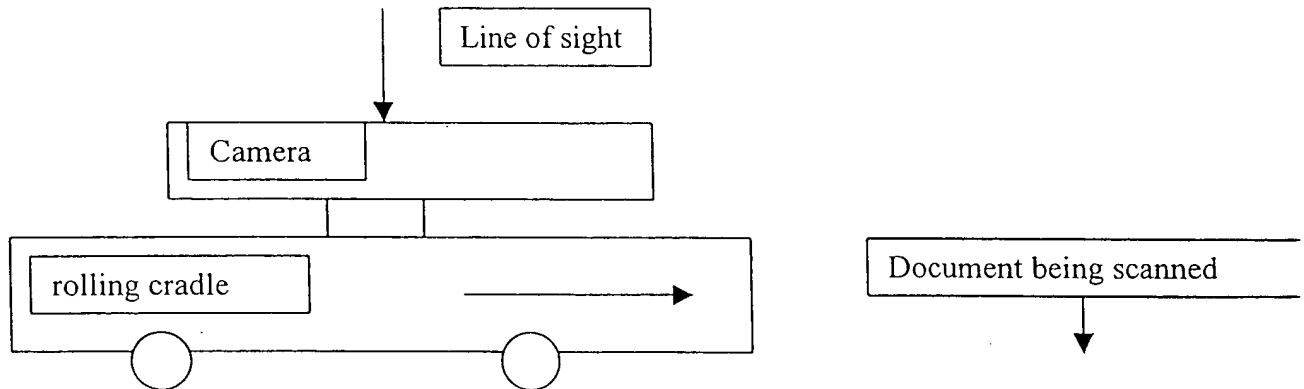
Stitching systems based on still images require some sort of indexing method to capture still images at proper intervals.

The user captures a video of a scene while remaining stationary and moving the camera.

A user places the camera in a rolling cradle that is moved over the surface of a document while in video capture mode. The invention can create a still image of the entire document from the resultant video data.

alternatively the user can create the video clip and then use a separate software application to convert to a still image. alternatively the video can be uploaded to a network or an online service for the conversion.

The cradle may store position and rotation speed data (from the rolling of the wheels) for use in constructing the still image.



### **Key advantage 1**

The user can scan documents of any size with a simple technique.

### **Key advantage 2**

A single cradle size can be used for any size document.

### **Key advantage 3**

No indexing method is required to capture images at proper intervals to create a large still image.